

GT-1033-FLP-PDA

Actual image and size may slightly differ

FEATURES

- Industrial Standard, 4-20mA output with Respect to Gas Concentration.
- Loop Test, Assures Proper Operation of the Transmitter without Calibration Gas
- Easy Programming with Password Protection.
- Fast Response, Easy to Read Display.
- Easy to Replace Sensor Module; On Field Plug-N-Play module.
- Reverse Polarity Protection.
- No Additional Power Required.
- Highly Reliable, Fast, Accurate for Specific Gas Detection.
- Excellent Long Term Stability.
- User Friendly, Simple to Operate & Easy to Install.
- Reduced Operating, Maintenance and Installation Cost, One Man Calibration.
- Sensor Open/ Over Range Indication.
- Inhibit mode for service purpose, current output settable as per the requirement.
- EMC compliance to IEC – 61000-4 standards.

APPLICATIONS

- Gas Metering skid
- Gas Cylinder Bank
- Oil & Gas Industries
- Gas Pipeline Project
- Refineries
- Cold Storage
- Sewage Plants
- Fertilizers Plants
- Stack Monitoring
- Chlorination Plant
- Ambient Monitoring
- Gas Metering Station
- Burner / Furnace Areas
- Chemical Processing Plant
- Acid Alkalize & Dyes mfg. Plants
- Offshore Drilling & Processing Platform
- Heat Treatment Plants
- Chemical Storage Area
- Control Atmosphere
- Power & Industrial Plants
- Coal Mine and Confined Area
- Chemical & Petrochemical Plants
- Automotive Industrial/Paints Shops
- Pulp & Paper Plants
- Bullets Yards / Storage Yard

TECHNICAL SPECIFICATIONS

General

Sensors	: Electrochemical Sensor/NDIR
Range/Resolution	: As specified in the Table
Detection Method	: Diffusion
Response Time	: Less than 10sec.
Display	: 2 Line, 4-Digit Segmental LCD Display.
Set Point	: Two independent set point, with alarm symbol for indication purpose.(There is no relay output)
Setting	: By using Magnetic Wand for Flameproof Model.

Accuracy

Toxic/O ₂	: ±2% of the full Scale Range.
NDIR CH ₄	: ±0.2% V/V or ± 5% of Applied Gas.

Electrical

Power Supply	: Load Driving capacity as follows: a)820 Ω at 24VDC to 36VDC b)680 Ω at 22VDC to 36VDC c)560 Ω at 20VDC to 36VDC d)47 Ω at 8VDC to 36VDC
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Output Signal

Standard	: 4-20 mA Loop current output with configurable range
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Error monitoring

- During Sensor break/ open the display shows 'OPEN' & loop current will be Upscale/ Downscale.
- During Over Range the display shows 'OVER' & loop current will be Upscale/ Downscale.
- Upscale current = 21mA
- Downscale current =3.7mA
- Inhibit mode current adjustable 3.8mA/ 4mA (for Toxic/NDIR) & 3.8mA/ 17.4mA (for Oxygen), user programmable.

Environmental

Operating Temp.	: -15 to +55°C
Storage Temp.	: -10 to +60°C

Optional Accessories

- CE certified 24 VDC power supply
- Gas sampling & conditioning system
- Canopy & Mounting stand

Flameproof Housing

Protection class	: IP-66
Cabinet material	: Cast aluminium alloy, LM-6
Cable entry	: Double compression cable gland EX-proof M20 X 1.5 (P) & M25 X 1.5(P)
Dimension	: 215mm(H) with sensor holder × 225mm(W) with stopper plug & Cable gland × 125 mm(D)
Mounting	: Wall Mounting/ Stand Mounting /Pipe Mounting
Weight	: Approximately 2.55 kg

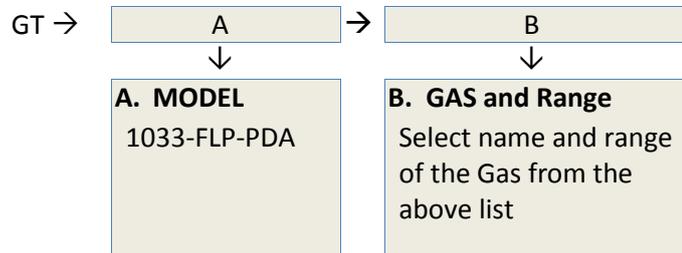
ELECTROCHEMICAL SENSOR TECHNOLOGY

SR. NO	GASES	RANGE	UNIT	RES.
O1	Oxygen (O ₂)	25	% Vol.	0.01
NT1	Nitrogen (N ₂)	75 TO 100	% Vol.	0.1
TOXIC GASES				
T1	Ammonia (NH ₃)	100	PPM	1
T2	Ammonia (NH ₃)	1000	PPM	1
T3	Bromine (Br ₂)	10	PPM	0.01
T4	Carbon Monoxide (CO)	1000	PPM	1
T5	Carbon Monoxide (CO)	2000	PPM	1
T6	Chlorine (Cl ₂)	10	PPM	0.01
T7	Ethylene Oxide(ETO)	100	PPM	1
T8	Hydrogen (H ₂)	2000	PPM	1
T9	Hydrogen Bromide (HBr)	100	PPM	1
T10	Hydrogen Chloride (HCL)	100	PPM	1
T11	Hydrogen Cyanide(HCN)	100	PPM	1
T12	Hydrogen Fluoride (HF)	10	PPM	0.01
T13	Hydrogen Fluoride (HF)	100	PPM	1
T14	Hydrogen Sulfide (H ₂ S)	100	PPM	1
T15	Ozone (O ₃)	20	PPM	0.01
T16	Phosphine (PH ₃)	10	PPM	0.01
T17	Nitrogen Dioxide (NO ₂)	20	PPM	0.01
T18	Nitric Oxide(NO)	250	PPM	1
T19	Sulfur Dioxide (SO ₂)	50	PPM	0.1
T20	Sulfur Dioxide (SO ₂)	2000	PPM	1
NDIR SENSOR TECHNOLOGY				
N4	Methane (CH ₄)	100	%LEL	1

NOTE:

- In above Table, Range of gases start from zero.
- **Gases which are not listed, are available on request & for other details contact factory.**

ORDERING INFORMATION



• **NOTE:** Select order code e.g. GT-1033-FLP-PDA -T8 i.e. GT-1033 –Flameproof Enclosure – Hydrogen 2000 PPM

Manufactured by :



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Dealers:

Version GT-1033-FLP-PDA-R1-13-03-2019